

特許協力条約に基づいて公開された国際出願

(54)Title: DIGITAL SIGNATURE GENERATING SERVER AND DIGITAL SIGNATURE GENERATING METHOD

(54)発明の名称 デジタル署名生成サーバ及びデジタル署名生成方法

(57) Abstract

A digital signature system using a public key code method in which the management of a private key is easy and the convenience is enhanced. A dynamic signature encryption key management unit (16) obtains registered dynamic signature data and a private key from a management database (12) in accordance with an "ID" transmitted from a user. The registered dynamic signature data and authentication dynamic signature data transmitted from the user are collated with each other by a dynamic signature collation unit (14). If both the data are judged to be identical, the dynamic signature encryption key management unit (16) supplies message data transmitted from the user and the private key to an encryption calculation unit (18), which transmits the message data etc. encrypted by the private key to the dynamic signature encryption key management unit (16). The dynamic signature encryption key management unit (16) transmits the message data etc. which are encrypted, i.e. signed, back to the user. It is not necessary for the users to manage their own private keys by themselves, so that a digital signature system significantly convenient can be obtained.

ネットワーク上の署名生成サーバ

11 ... client computer system on network
12 ... ID, registered dynamic signature data and private key
13 ... dynamic signature collation unit
14 ... dynamic signature encryption key management unit
15 ... dynamic signature encryption unit
16 ... dynamic signature encryption key management unit
17 ... dynamic signature encryption unit
18 ... dynamic signature encryption unit
19 ... dynamic signature encryption unit
20 ... dynamic signature encryption unit
21 ... dynamic signature encryption unit
22 ... dynamic signature encryption unit
23 ... dynamic signature encryption unit
24 ... dynamic signature encryption unit
25 ... dynamic signature encryption unit
26 ... dynamic signature encryption unit
27 ... dynamic signature encryption unit
28 ... dynamic signature encryption unit
29 ... dynamic signature encryption unit
30 ... dynamic signature encryption unit
31 ... dynamic signature encryption unit
32 ... dynamic signature encryption unit
33 ... dynamic signature encryption unit
34 ... dynamic signature encryption unit
35 ... dynamic signature encryption unit
36 ... dynamic signature encryption unit
37 ... dynamic signature encryption unit
38 ... dynamic signature encryption unit
39 ... dynamic signature encryption unit
40 ... dynamic signature encryption unit
41 ... dynamic signature encryption unit
42 ... dynamic signature encryption unit
43 ... dynamic signature encryption unit
44 ... dynamic signature encryption unit
45 ... dynamic signature encryption unit
46 ... dynamic signature encryption unit
47 ... dynamic signature encryption unit
48 ... dynamic signature encryption unit
49 ... dynamic signature encryption unit
50 ... dynamic signature encryption unit
51 ... dynamic signature encryption unit
52 ... dynamic signature encryption unit
53 ... dynamic signature encryption unit
54 ... dynamic signature encryption unit
55 ... dynamic signature encryption unit
56 ... dynamic signature encryption unit
57 ... dynamic signature encryption unit
58 ... dynamic signature encryption unit
59 ... dynamic signature encryption unit
60 ... dynamic signature encryption unit
61 ... dynamic signature encryption unit
62 ... dynamic signature encryption unit
63 ... dynamic signature encryption unit
64 ... dynamic signature encryption unit
65 ... dynamic signature encryption unit
66 ... dynamic signature encryption unit
67 ... dynamic signature encryption unit
68 ... dynamic signature encryption unit
69 ... dynamic signature encryption unit
70 ... dynamic signature encryption unit
71 ... dynamic signature encryption unit
72 ... dynamic signature encryption unit
73 ... dynamic signature encryption unit
74 ... dynamic signature encryption unit
75 ... dynamic signature encryption unit
76 ... dynamic signature encryption unit
77 ... dynamic signature encryption unit
78 ... dynamic signature encryption unit
79 ... dynamic signature encryption unit
80 ... dynamic signature encryption unit
81 ... dynamic signature encryption unit
82 ... dynamic signature encryption unit
83 ... dynamic signature encryption unit
84 ... dynamic signature encryption unit
85 ... dynamic signature encryption unit
86 ... dynamic signature encryption unit
87 ... dynamic signature encryption unit
88 ... dynamic signature encryption unit
89 ... dynamic signature encryption unit
90 ... dynamic signature encryption unit
91 ... dynamic signature encryption unit
92 ... dynamic signature encryption unit
93 ... dynamic signature encryption unit
94 ... dynamic signature encryption unit
95 ... dynamic signature encryption unit
96 ... dynamic signature encryption unit
97 ... dynamic signature encryption unit
98 ... dynamic signature encryption unit
99 ... dynamic signature encryption unit
100 ... dynamic signature encryption unit